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There is uncertainty about whether women older than age 65 should undergo screening mammography. Although screening mammography may benefit some elderly women through the detection of early breast cancers, it may harm other women through false positive diagnoses and the detection of clinically insignificant lesions. This research study involves the design and implementation of a data analysis of HCFA Medicare billing claims linked with National tumor registry data from the Surveillance Epidemiology and End Results (SEER) program. The analysis will first determine if Medicare billing claims are accurate, and second, evaluate differences in breast cancer at diagnosis, tumor attributes, and treatment between women who are screened with mammograms and those who are not. The PI will focus on validating that the Medicare claims are accurate for determining screening mammography prior to completing any analysis.

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### INTRODUCTION

There is uncertainty about whether women older than age 65 should undergo screening mammography. The SEER-Medicare data, created through a collaborative effort of the NCI and CMS, is a population-based dataset and provides an ideal data set to study mammography screening among elderly women. Using prospectively collected data from the San Francisco-Oakland, New Mexico, and Washington State Breast Cancer Surveillance Consortium (BCSC) registries (an NCI sponsored collaboration of mammography registries) linked with data from Medicare for the same geographical regions from 1992–1996, we assessed whether Medicare physician claims can be used to determine the use of screening mammography.

### STUDIES and RESULTS

**SOW #1:** Obtain Health Care Financing Administration/SEER Tumor Registry Data
The linked Medicare HCFA/SEER database describing Medicare claims through 1998 and breast cancer cases through 1996 was obtained, and data cleaning of this complex administrative database was completed in Year 1.

### **SOW #2:**

a) Develop Algorithm for determining the predictor variable of screening mammography utilization

- 1. Medicare claims were found to be an accurate tool for measuring mammography screening. Our manuscript entitled "Can Medicare billing claims data be used to assess mammography utilization among women age 65 and older" has been submitted to *Health Services Research* and we have also submitted a revised manuscript.
- 2. Our secondary goal of determining how well Medicare claims distinguish screening from diagnostic mammograms is currently complete. Overall, 11.5% of exams are misclassified with respect to whether they are screening or diagnostic. Manuscript is currently being written.
- b) Develop a plan to approximate SES using census tract and zip code information We had previously described a method to combine census tract and zip code level information on median income to approximate SES levels in SEER-Medicare. In "Can Medicare billing claims data be used to assess mammography utilization among women age 65 and older", under review at *Health Services Research*, we used this method to adjust risk estimates of the probability of a mammogram having a matching claim in Medicare. Proper SES adjustment was important for this analysis so that we could interpret any potential differences in match probability by race.

c) Develop a survival analysis plan

We are currently finalizing working definitions of the variables that will be included in the survival analysis, including measures of screening mammography utilization, timeliness of breast cancer diagnosis, and breast cancer treatments. Manuscripts describing mammography utilization and breast cancer treatments have been submitted for publication.

### KEY RESEARCH ACCOMPLISHMENTS

- 1. Smith-Bindman R, Quale C, **Chu P**, Rosenberg R, Kerlikowske K. "Can Medicare billing claims data be used to assess mammography utilization among women age 65 and older" was submitted to *Health Services Research*, and a revision was requested and resubmitted. (Manuscript attached.)
- 2. Kagay C, Quale C, Chu P, Smith-Bindman R. "Mammography use among the American elderly" was submitted to *Annals of Internal Medicine*. (Abstract in appendices.)
- 3. Haagstrom D, Quale C, Chu P, Smith-Bindman R. "Racial differences in breast cancer treatment" is near complete and will be submitted for publication.
- 4. Smith-Bindman R, Quale C, Chu P, Rosenberg R, Kerlikowske K. "Differentiating screening from diagnostic mammography using Medicare billing claims." Manuscript under preparation.

### REPORTABLE OUTCOMES

None

### **CONCLUSION**

We found Medicare data are accurate for determining use of mammography. Therefore, these data can be used for Health Services Research to determine outcomes associated with breast cancer screening. Additionally, we found substantial persistent racial and ethnic disparities in using mammography and receipt of appropriate breast cancer treatment. Additional research should target diminishing these disparities.

### **APPENDICES**

### SCREENING MAMMOGRAPHY IN THE AMERICAN ELDERLY

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### ABSTRACT

**Background:** Substantial differences exist in estimates of the proportion of elderly women who undergo screening mammography and the impact of race and ethnicity on mammography usage.

**Methods:** A representative 5% sample of elderly women living in 11 Surveillance, Epidemiology and End Results (SEER) areas in 1991-2001 was constructed using Medicare data. Biennial rates of screening mammography were calculated for overlapping two-year periods, adjusting to a 2000-01 age and race distribution and for the proportion of mammograms not captured by Medicare. Multivariable repeated measures logistic regression was used to examine predictors of screening usage.

Results: 146,669 women were included. Between 1991 and 2001 the proportion of women age 65 and older who underwent at least biennial screening mammography increased from 38.3% to 51.4%. Mammography screening increased for all racial and ethnic groups, but remained significantly higher for non-Hispanic White women as compare with all other groups. There was no decline in this disparity in screening rates during the years of the study. The biennial screening rate in 2000-01 was 53.7% for non-Hispanic White, 43.0% for African-American, 36.8% for Asian-American, 38.5% for Hispanic and 13.2% for Native-American women. After controlling for age, site, physician access, comorbidities, education and income, African-Americans [OR 0.80

(95% CI 0.78 - 0.83)], Asian-Americans [OR 0.53 (0.51 - 0.55)], Hispanics [OR 0.70 (0.67 - 0.74)] and Native Americans [OR 0.37 (0.29 - 0.46)] were all less likely to undergo screening than were non-Hispanic White women.

Conclusion: Elderly women undergo significantly less mammography screening than suggested by self-reported surveys, and a substantial number are inadequately screened. This is particularly true for women in ethnic and racial minority groups. The low screening rates found for African-American and Hispanic women potentially help to explain the later stages at breast cancer presentation of those groups.

# CAN MEDICARE BILLING CLAIMS DATA BE USED TO ASSESS MAMMOGRAPHY UTILIZATION AMONG WOMEN AGE 65 AND OLDER

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This study used the linked SEER-Medicare database. The interpretation and reporting of these data are the sole responsibilities of the authors. We acknowledge the efforts of the Applied Research Branch, Division of Cancer Prevention and Population Science, National Cancer Institute; The office of Information Services and the Office of Strategic Planning, HCFA; Information Management Services, Inc; and the SEER program tumor registries in the creation of the SEER-Medicare database.

2.

### **ABSTRACT**

**Objective:** Medicare data may be a useful source for determining the utilization of mammography among elderly women. We determined whether Medicare physician billing claims are an accurate reflection of mammography utilization among women age 65 and older.

**Data Sources:** Mammography use was assessed by comparing Medicare administrative billing claims with radiology reports from mammography registries that participate in the NCI-funded Breast Cancer Surveillance Consortium (BCSC). Data were included from three geographic areas by linking information for each patient and each mammogram from Medicare and the BCSC mammography registries.

**Subjects:** Women age 65 and older, diagnosed with breast cancer between 1991-1996, who had at least one mammogram between 1992 - 1998.

**Methods**: Completeness of the Medicare data were assessed by comparing mammography usage based on Medicare claims alone with data from the radiology reports.

Results: There were 5,842 mammograms obtained by 1,676 women between 1992 and 1998 included in this analysis. Overall, 82% of mammograms obtained by women age 65 and older had a corresponding billing claim in Medicare, and this increased from 70.8% in 1992 to 91.3% in 1998. In multivariable analysis, age, race, ethnicity, and socioeconomic status did not affect the likelihood that a mammogram would be associated with a billing claim. A total of 94.3% of women were accurately classified by Medicare claims as having undergone at least biennial mammography (at least one mammogram in a two year period.)

**Conclusion:** Medicare administrative claims are reliable for assessment of mammography utilization, and have become more accurate over time. Population trends in the use of mammography can be assessed using these data, in particular starting in 1998.

### **INTRODUCTION**

Several national efforts have encouraged mammography use among elderly women over the last decade, including the expansion of Medicare coverage to reimburse for screening mammography in 1991. As a result, overall utilization rates of screening mammography among elderly women are believed to have increased substantially. <sup>1, 2</sup> However, there remain substantial differences in the published estimates of the proportion of elderly women who undergo mammography and how close elderly women come to meeting national guidelines for screening frequency. The most widely cited estimates of mammography use are based on self-report data collected as part of the Behavior Risk Surveillance System <sup>3</sup> and the National Health Interview Study <sup>1</sup>, and these suggest elderly women in aggregate are close to reaching national recommended for biennial screening. However, recent analyses have raised doubts about the reliability of these data. <sup>4-8</sup> Thus there are few accurate estimates of the utilization rates of mammography among elderly women, or data that can be used to study whether mammography is being used appropriately and by whom.

The ideal database to assess mammography utilization among elderly women would be population-based and readily available to allow the rapid and reliable assessment of mammography utilization. If found reliable, Medicare data would be an ideal source with which to study screening among the elderly, as the vast majority of elderly women in the U.S are covered by this government-sponsored insurance policy and it would give an unbiased estimate of mammography utilization. However, Medicare claims have not yet been shown to be reliable for determination of mammography utilization. <sup>9</sup> Specifically, because beneficiaries may pay out of pocket for mammograms, pay for them through private health insurance, or have them paid for through other programs, using Medicare billing claims data to assess mammography utilization could lead to an underestimation of actual utilization. <sup>8</sup>

The purpose of this analysis is determine whether Medicare physician billing claims data can be used to accurately determine the use of mammography among elderly women. Specifically, among a group of elderly women in whom we know mammography was obtained based on radiology

physician reports, we determined the percentage of mammograms that had an associated Medicare billing claim.

### **METHODS**

Mammography use among elderly women was assessed in three geographic areas using data from two sources: (1) Medicare administrative billing claims and enrollment information provided by the Center for Medicare and Medicaid Services (this information was obtained as part of the linked SEER-Medicare dataset <sup>10</sup>); and (2) information from mammography registries that have participated in the Breast Cancer Surveillance Consortium (BCSC), an NCI-funded consortium in the U.S. <sup>11-13</sup> The Medicare and BCSC data cannot be readily linked for all women as both datasets have been anonymized. <sup>10</sup> However, each dataset has been linked with their regional SEER (Surveillance, Epidemiology and End Results) tumor registry data, and thus we were able to link Medicare data (SEER-Medicare) with the BCSC data (SEER-BCSC) using SEER Registry identification codes. The study was limited to women diagnosed with breast cancer, as we only were able to link information for these women. The UCSF institutional review board, and each of the SEER and mammography registries approved the study.

### **Data Sources**

### **SEER-Medicare**

The SEER-Medicare dataset provided a convenient source to evaluate the Medicare claims information. The SEER-Medicare database is a collaborative effort of the National Cancer Institute, the SEER program, and the Center for Medicare and Medicaid Services to create a large population-based source of information for cancer related epidemiologic and health services research. <sup>10</sup> SEER-Medicare data combines cancer information from population based cancer registries, including approximately 12-14% of cancers diagnosed annually in the U.S., with clinical information derived from the Medicare data, which includes billing claims for physician services including mammography.

### Breast Cancer Surveillance Consortium

Data were obtained from mammography registries that have participated in the Breast Cancer Surveillance Consortium (BCSC). <sup>11-13</sup> The BCSC is a National Cancer Institute (NCI)-funded consortium of registries that collect patient demographic and clinical information, <sup>14</sup> mammographic interpretation from radiology reports and cancer diagnoses for participating facilities in seven states. The registries were initially funded in 1995, which allowed them to expand existing mammography facility based data collection in their areas. Each registry has tried to capture all mammograms in their region, limited primarily by practical concerns. None of the registries is entirely population-based, but they have become increasingly population based over time. These data provided a way to assess mammography use among elderly women based on detailed medical records. Three registries (New Mexico, San Francisco and Washington State) were included in this study because each of these registries links their mammography data with their regional SEER tumor registry. Each registry includes both screening and diagnostic examinations that were performed on women living in their defined catchment areas.

### Data Linkage

Information from the SEER-Medicare and SEER-BCSC data sources were linked for women who resided in the same geographic areas. We were able to find matches among women since the tumor ID variable in the BCSC was a subset of the identifying variable in the SEER-Medicare data. We considered mammograms from the two different sources to match if the ID variables matched and the dates from the two datasets were within one week from each other, although the majority (over 92%) of the matches were on the same day.

### Assessment of Mammography Utilization and Other Variables

### **SEER-Medicare**

Mammography claims were taken from the outpatient facility file (OUTSAF) and the physician's claim file (NCH.) We searched for all claims with one of three CPT codes: 76090 (Mammography, unilateral), 76091 (Mammography, bilateral) or 76092 (screening Mammography, bilateral). 15-21 We included both screening and diagnostic mammograms because Medicare claims do not reliably distinguish between these two procedures 9, 17, because our referent standard based on the BCSC registries included both screening and diagnostic examinations, and because mammograms are considered diagnostic for five years following a diagnosis of cancer. 12, 13 When we encountered duplicate claims (more than one mammogram for the same woman occurring on the same day but from the different claim sources, i.e. one from the physician's claim file and one from the facility claim file), we only counted one of those mammograms to avoid over-estimating Medicare mammography usage. Thus at most a single mammogram was counted and compared between the data sets for any given day in the study period. Overall, 59.8% of the mammography claims occurred in the physician's claim file (NCH), but not in the outpatient facility file (OUTSF), while 3.5% of the claims were in the outpatient file but not in the physician claims. Overall, 36% of claims were in both files.

Age was stratified within 5-year age groups, race/ethnicity was grouped as Hispanic and non-Hispanic white, African American, and Asian/Pacific Islander using the SEER race "recode B. <sup>22</sup> SES was determined using a combination of median neighborhood income based on census tract and zip-code level variables. <sup>22</sup>

### **SEER-BCSC**

The BCSC records include the date of all mammographic examinations, and radiologist mammographic interpretation. We considered a mammogram to have occurred if there was a record of a mammographic examination with a corresponding physician interpretation.

### **Subjects**

The BCSC began in different years for each of the three sites, and we included all mammograms obtained inclusively between 1992-1998. We used information from both the SEER-Medicare and SEER-BCSC data to assemble our cohort of study subjects. We began with all of the women aged 65 and older (eligible for Medicare), at diagnosis of breast cancer (between 1991 and 1996), who had at least one mammogram in the BCSC, present in the SEER-Medicare data, and who live in one of the three geographic areas (n=2,244.) As part of Medicare, women may be enrolled in risk-based HMO plans. Since Medicare does not receive billing claims for physician services for these women, and thus mammography utilization cannot be assessed, we did not include the mammograms during the months when a woman had HMO coverage. Additionally, as Medicare does not receive billing claims during periods where a woman is not Part B eligible, we excluded mammograms that occurred during months where the woman was not Part B eligible. From the original 2,244 eligible women from the BCSC, 558 (25.3%) women had all of their mammographic history excluded for either HMO enrollment or non Part B eligibility. Of those 568, most 501 (89.3%) were removed because of mammograms during months of HMO enrollment, 60 (10.5%) because of mammograms excluded during months of non-Part B enrollment, and 74 (1.2%) had mammograms excluded for both HMO enrollment or non-Part B enrollment. This yielded a population of 1,676 (74.7%) women who had one or more eligible mammograms, and who received those mammograms during years of study. For this group of women, we included all mammograms obtained from 1992 to 1998, including all mammograms obtained both before and after their diagnosis of cancer.

### **Analysis**

The referent standard included all mammograms that were documented in a BCSC mammography registry, and using this referent standard, we determined the percentage of mammograms that were documented in Medicare (Medicare capture rates). We calculated unadjusted Medicare capture rates by age, race, ethnicity, geographic site, income, and timing of mammogram in relation to cancer diagnosis (before/after). In order to estimate what patient variables predict the likelihood of a mammogram being billed to Medicare, all of the above variables were included in a multivariable generalized estimating equation (GEE) logistic model <sup>23</sup> that accounted for within-woman correlation. All analyses were done using the SAS System version 8.2. <sup>23</sup> Fitting the multivariable model allowed us to examine the differential effects of age, race, ethnicity and SES on the probability of capturing a mammogram in Medicare data.

For the preceding analysis, we calculated Medicare capture rates at the mammogram level. From a health care policy perspective, it is important to understand what proportion of women are undergoing at least biennial mammography (at least one mammogram within a two-year period.) In order to assess whether women are correctly classified as having undergone at least biennial mammography, for each two year period (1992-199; 1993-1994; 1995-1996; 1997-1998) we calculated the percentage of women who were classified as having undergone mammography based on the Medicare data, and compared this to the classification based on BCSC data.

The BCSC data may be valuable to measure cancer screening practices, and it is unknown the degree to which these data are population based. In order to assess the degree to which the BCSC registry data were population-based, for each mammogram identified in the Medicare data, we assessed whether there was an associated record in the BCSC.

### RESULTS

There were 5,842 mammograms obtained by 1,676 women between 1992 and 1998 included in this analysis, including 1,859 (31.8%) obtained prior to breast cancer diagnosis, and 3,983 (68.2%) following a breast cancer diagnosis, Table 1. Overall, 82.0% of the mammograms reported in the registries had a corresponding billing claim in Medicare, and this increased from 70.8% in 1992 to 91.3% in 1998, Table 2. There were no significant differences in the crude capture rates by age, race, ethnicity, or income. The capture rate prior to cancer diagnosis was lower than after breast cancer diagnosis.

In a multivariable model, we found significant differences in the percentage of mammograms with an associated billing claim by site, year and timing of mammogram with respect to breast cancer diagnosis, Table 2. A mammogram was more likely to be associated with a billing claim in the most recent years of the study (with a fairly consistent increase), and mammograms that occurred following a diagnosis of cancer were more likely to be associated with a billing claim than mammograms obtained prior to a diagnosis of cancer. We did not find a significant difference in the Medicare capture rates based on the median community income, race, ethnicity or age.

To evaluate whether women are classified correctly as having undergone at least biennial mammography, we compared the characterization of women based on Medicare data with the characterization based on the BCSC data. A total of 94.3% of women were accurately classified by Medicare claims as having undergone biennial mammography (at least one mammogram in a two year period.) This ranged from 93.8% in 1992 to 94.6% in 1997.

In order to assess the degree to which the BCSC registry data were population-based, for each mammogram identified in the Medicare data, we assessed whether there was an associated record in the BCSC. Overall we were able to find a radiology report in the BCSC for 83% of the mammograms that occurred in Medicare, and this increased over time. By 1998, the BCSC was

nearly population-based, as it captured greater than 90% of mammograms obtained in Medicareaged women.

### DISCUSSION

Medicare physician claims can be used to determine whether women with breast cancer have undergone mammography as most mammograms (82%) obtained among women diagnosed with breast cancer have a corresponding Medicare billing claim. Medicare capture-rates have increased over time, suggesting that Medicare data have become more reliable in recent years. By 1998, greater than 91% of mammograms had an associated billing claim. Similarly, Medicare data can be used to determine whether women have undergone at least biennial mammography, as over 94% of women were correctly classified as having undergone at least biennial mammography. We did not find a large percentage of missing mammography claims, nor differences by age, race, ethnicity, or median community income. We found differences in the capture rates among the different sites and speculate that geographic differences in billing practices, as well as the availability of alternate payment sources for mammography might explain this result.

The BCSC data may be useful to study cancer-screening practices. By 1998, we found the BCSC was nearly population-based and that it captured greater than 90% of mammograms obtained in Medicare-aged women. We are unable to assess if the registries are equally population based for women younger than age 65 as they were not included in our study.

We included mammography billing claims from both the physician claims file (NCH) and output (OUTSF) files. Most of the mammography claims were present in the NCH file and including the OUTSF contributed only 3.5% additional mammograms. Thus there was relatively little additional value from searching for mammograms in the OUTSF file.

The major strength of this report is that it is the first to compare mammography use as assessed by Medicare administrative billing claims, with patient specific medical records, and we found the administrative claims reliable. Medicare records provide a readily available and timely method to

measure mammography screening rates that are free of recall bias, and thus we have shown they can be used to assess screening.

There are several limitations of this study. We did not include women enrolled in HMO plans. Unfortunately the use of physician services cannot be ascertained in Medicare beneficiaries enrolled in HMO-types of plans, and thus mammography usage among women enrolled in these types of plans cannot be assessed. However, the majority of elderly women (>70%) are enrolled in FFS plans, and thus Medicare data remain an important tool that can be used to assess the use of mammography among most elderly women. This analysis did not evaluate the utility of Medicare claims to measure the use of screening as opposed to diagnostic mammography or the utility of screening for the diagnosis of cancer. We assessed the capture rate of all mammograms obtained by women age 65 and older, and did not separately determine the capture rates of screening versus diagnostic examinations. Approximately 90% of mammograms are obtained for screening purposes <sup>24</sup> Therefore if the total number of mammograms among elderly women is assessed using Medicare data (including the billing codes we have used), than this number will need to be adjusted downward in order to determine the number of mammograms obtained for screening. We looked at billing claims only in women who were diagnosed with breast cancer and these may not be generalizeable to the majority of women who undergo mammography who do not have breast cancer. However, the overall capture rates were relatively high even in the years prior to breast cancer diagnosis. We only looked at three geographic areas, and even within those areas there was variability in the capture rates. Lastly, we did not find differences in capture rates between non-Hispanic white, African American and Asian women, or by socio-economic variables, however, our sample size may have been too small to conclude that capture rates are the same across these different groups.

What are the implications of this study? Mammography use as assessed by self-report has been found to be very high, as 70-80% of women older than age 65 have reported biennial screening mammography use. <sup>1, 3</sup> However, these rates have not been confirmed with administrative claims.

The results of this study suggest administrative billings claims capture a large percentage of examinations, and that patient self-report data may substantially overestimate the use of mammography. This analysis suggests that Medicare data are a fairly reliable method for assessment of mammography utilization among elderly women. These findings support the use of Medicare claims to assess population trends in the use of mammography, in particular, in particular after 1998.

### TABLE AND FIGURE LEGENDS

### Table 1

Characteristics of women included in this report

### Table 2

The percentage of mammograms among women age 65 and older with an associated Medicare billing claim, by registry, age, race, ethnicity, SES, and timing in relation to breast cancer diagnosis. The odds ratios are from the multivariable logistic regression results.

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Pdf Excel

Row(s) 1 - 9 of 9

# Expenditure Summary By DPA, Fund, NCA Group for 05/2004 (CLOSED)

Grouping  DPA - 444951 MED RES-RADIOLOGY  Fund/FY - 23020- DAMD17 00 1 0193 04/03  - DIRECT  - SALARY	Budget (	Financial	Lien	Balance	Pct
ACADEMIC	0.00	35,595.48	0.00	35,595.48	N/A
Total: - BENEFITS	0.00	35,595.48	0.00	35,595.48	N/A
ACADEMIC	28,417.00-	8,573.63	0.00	19,843.37-	30.17%
Total: - NONPAYROLL	28,417.00-	8,573.63	0.00	19,843.37-	30.17%
OTHER SERVICES	0.00	300.00	0.00	300.00	N/A
TRAVEL	1,047.00-	2,174.92	0.00	1,127.92	207.73%
OTHER EXPENSES	0.00	365.00	0.00	365.00	N/A
CAMPUS UNALLOCATED	32,520.00-	0.00	0.00	32,520.00-	0.00%
CAPITAL EQUIPMENT	0.00	3,249.58	0.00	3,249.58	N/A
Total:	33,567.00-	6,089.50	0.00	27,477.50-	
Total: - INDIRECT - OVERHEAD	61,984.00-	50,258.61	0.00	11,725.39-	81.08%
OVERHEAD	497.00-	12,222.39	0.00	11,725.39	N/A
Total:	497.00-	12,222.39	0.00	11,725.39	N/A
Total:	497.00-	12,222.39	0.00	11,725.39	N/A
Total:	62,481.00-	62,481.00	0.00	0.00	100.00%
Total:	62,481.00-	62,481.00	0.00	0.00	100.00%
DPA - 784351 MISC STDT AID-GRAD Fund/FY - 23020- DAMD17 00 1 0193 04/03 - DIRECT - NONPAYROLL					
OTHER EXPENSES	3,348.00-	3,348.00	0.00	0.00	100.00%
Total:	3,348.00-	3,348.00	0.00	0.00	100.00%
Total:	3,348.00-	3,348.00	0.00	0.00	100.00%
Total:	3,348.00-	3,348.00	0.00	0.00	100.00%
Total:	3,348.00-	3,348.00	0.00	0.00	100.00%
Totals:	65,829.00-	65,829.00	0.00	0.00	100.00%
Row(s) 1 - 9 of 9		'			

Selected Report Criteria

Business Unit: UCSF

Fund Type: Current

Department Code: 497616 - RADIOLOGY-MT ZION HOSPITAL

DPA: 444951

Fund: 23020

Date: 05/2004

Reports & Tools | Home | Log Out | 07/13/2004

Pdf Excel

Row(s) 1 - 30 of 30

### Distribution of Payroll Expense by DPA, Fund, Sub for 01/2001 (CLOSED)

ET Page Employee Mo Line Name Dpa - 444951 MED RES-RAD Fund - 23020 DAMD17 00 1 0193 Sub - 0 Academic Salary		Period E End Date [	OOS Toe Time	Po Ro	ny ite	A J	Gross Earnings	Total Benefits	GSTR/ IAPOF	OASDI MEDO
0207 1357601 CHU_PHILIP W. 0208 1369501 CHU_PHILIP W. 0210 1377801 CHU_PHILIP W. 0211 1334901 CHU_PHILIP W. 0211 1334901 CHU_PHILIP W. 0212 1411201 CHU_PHILIP W. 0301 1265601 CHU_PHILIP W. 0302 1540001 CHU_PHILIP W. 0303 1376701 CHU_PHILIP W. 0304 1388401 CHU_PHILIP W. 0306 1439101 CHU_PHILIP W. 0307 1385601 CHU_PHILIP W. 0308 1408301 CHU_PHILIP W. 0309 1482101 CHU_PHILIP W. 0310 1411401 CHU_PHILIP W. 0311 1411301 CHU_PHILIP W. 0411 1460301 CHU_PHILIP W. 0402 1576101 CHU_PHILIP W. 0403 1438001 CHU_PHILIP W. 0404 1576101 CHU_PHILIP W. 0404 1576101 CHU_PHILIP W. 0405 1448001 CHU_PHILIP W. 0406 1462201 CHU_PHILIP W. 0409 1448601 CHU_PHILIP W.	027692797 3300 027692797 3300	12/31/2002 R 01/31/2003 R 02/28/2003 R 03/31/2003 R 05/31/2003 R 05/31/2003 R 07/31/2003 R 07/31/2003 R 09/30/2003 R 10/31/2003 R 11/30/2003 R 12/31/2003 R	EG .2200 EG .4200	****************	5335.00 5335.00 5335.00 5335.00 5335.00 5966.00	E E	1,173.70 1,173.70 1,173.70 1,173.70 1,173.70 1,312.52 1,3	282.54 282.54 404.66 404.66 282.54 180.46 302.58 302.58 302.58 302.58 315.47 315.47 315.47 315.47 315.47 316.47	9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00	87.94 87.94 86.09 86.09 87.94 100.41 98.56 98.56 98.56 99.55 99.55 99.55 190.04 189.53 190.04 190.04 190.04 190.04 190.04 190.04 190.04 190.04 190.04 190.04 190.04 190.05 190.05
0209 1511001 CHU.PHILIP W. 0312 0257001 CHU.PHILIP W. 0312 0257002 CHU.PHILIP W. 0305 1428802 ZHAO.JIE 0306 1439102 ZHAO.JIE Total: Total: Total: Total:	027692797 3300 027692797 3300 027692797 3300 023479751 3220 023479751 3220	06/30/2003 F 06/30/2003 F 10/31/2002 F	REG .4200 REG4200 REG .9500	% % % % %	5335.00 5966.00 -5966.00 4300.00 -4300.00	`	1,173.70 2,505.72 2,505.72- 4,085.00 4,085.00- 1,173.70 35,595.48 35,595.48	160.76 291.65 291.65- 475.49 472.94- 163.31 8,573.63 8,573.63	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	89.79 191.68 191.68- 312.50 309.95- 92.34 2,690.27 2,690.27

Row(s) 1 - 30 of 30

Selected Report Criteria
Department Code: 497616 - RADIOLOGY-MT ZION HOSPITAL
DPA: 444951
Fund: 23020
Adjustment Code: ALL
TOE Date: 01/2001 To: 06/2004

### UCSF CONTRACTS AND GRANTS APPROVAL FORM

OFFICE OF SPONSORED RESEARCH, CONTRACTS & GRANTS (C&G) DIVISION AND INDUSTRY DIVISION

SUBMIT ORIGINAL OF THIS APPROVAL FORM WITH PROPOSAL TO

C&G - Suite 315, 3333 California St (Laurel Heights) OR Industry Div. - Suite 4603, 185 Berry St. (China Basin)

PROPOSALS ARE DUE BY 9 A.M. FOUR WORKING DAYS BEFORE AGENCY DEADLINE

ATTACHED ARE A (Includes a	NORIGINAL Copy for C&	_+ COPIES OF PROPOS. G or Industry Division)	AL		
P.I./Fellow: Philip W. Chu		P.I./Fellow Academic Title:			
Sponsor: Rebecca Smith-Bindman, MD	, -	Current Title Eligible for P.I.	Status? ⊠ Yes □No		
		If NO, attach Principal Investig	ator Status Form.		
P.I. Mail Stop: <b>1667</b> P.I. Phone: <b>885-3842</b> P.I. Fax: <b>885-7876</b>		Form available at http://www.resear	ch.ucsf.edu/cg/ucsfform.htm)		
P.I. E-mail: Bill.Chu@Radiology.ucsf.edu					
Funding Agency: DOD		Agency Deadline: 4/12/200 Date	4 ☐ Postmark or ⊠ Receipt		
Address Proposal To: (street & room number required for overnight delivery) U.S. Army Medical Research Acquisition Activity, Attn: MCMR-AAA-B, 820 Chandler St., Fort Detrick, MD 21702-5014		( ) Additional Copies To: (street & room number required for overnight delivery)			
Agency Contact (if known): Judy Pawlus					
Phone: <b>301-619-7322</b> Fax:		E-mai: judy.pawlus@det.a	medd.army.mil		
Thomas do to					
Administering Dept. / ORU: Radiology		AC Phone: 353-7983 AC Fax: 885-7876			
Administrative Contact (AC) Person: Travis Se	awards	AC E-mail: Travis.Seawards@Radiology.ucsf.edu			
Administrative contact (15)					
Initial Budget Period (mm-dd-yyyy): 8/1/2001 to	o 8/1/2002	Total Project Period (mm-de	d-yyyy): 8/1/2001 to 8/1/2004		
Initial Budget Period Amount:		Total Project Period Amour	nt:		
1		\$65,829.00			
T-4.4	<del></del>	Total including F&A costs			
Indirect Cost Rate: 47 00 % Does this pro			st sharing?      Yes   ⊠ No		
RFP#, RFA#, Program Title (if any): (Attach Copy of RFP, RFA, or Program Announcer	ment)		·		
Project Title (200 characters maximum): Outcomes Of Screening Mammography in Elderly Women					
Check One Box In Each Column:	Type of Agree	omant:	Type of Project:		
Type of Action:	Type of Agreement:		⊠ Research		
New DANID47 00 1 0193	☐ Contract		☐ Instruction		
Renewal of No. DAMD17-00-1-0193	Cooperativ	/e Agreement	☐ Public Service		
☐ Continuation of No.	Subcontra		☐ Clinical Trial		
☐ Revision of No. ☐ Supplement of No.	PrimeFunding A		Other Clinical Service		
□ Supperient of No.	☐ Fellowship		☐ Equipment		
·			☐ Other Sponsored Activity		

#0891 P.002/002 1-895 P.01/01 P-03 APR.19 2004 09:12 API-10-04 08:4568 4156027499 From-LESPRADIOLOGY BUS OFFICE Earch 'Yes'. 'We', or 'Penethellest-motime' for each Rem below: A the Pantitra or All Ö Committee on Arimsi Research. If you ettech stratograf Committee on Human Research. II yes, estech segreval Rediation Safety Committee Sictifiaty Committee use of human stem ceas. If the extent CMR express! <u>Created or other orders and the following costs budgeted for:</u> Lecal belophers costs, poetage, or membershipelsubscriptions "
I yes, these charges must comply with the UCSF Charging Practices (see hito://pccia.usal.pdv/Caso/Casinfo.Him) MM audicales a serve MOU - Does the preject brevive faculty with a joint VALICATORF Appelmentant? (II yes, stach one copy of the eighed memorandum of understanding (MOU) See http://www.peswersh.upal.ady/pp/ypanform.htm) Y98 8 is the Sponsor PHS or NSF. or a sponsor that follows PHS/NSF disclosure regularments? If yes. sitech Pl Declaration Form plus, all Participant Discionure of Financial Interest Forms. For a flat of PHS agencies, see http://www.mseenth.acst.edu/colec/colec federal.htm is the approxor a hor governmental agency? If yes, attach FPPC 700-U form (Statement of X Economic Interest) unless exempt. For a list of exempt agencies see http://www.ucop.edu/research/exempt.html of their think or out a tit million Disclosure forms are explishe at hits lineary residents by at adulto les forms him Space commitment: By approving this proposal submission the administering department chaliperson/ORU director assures that adequate space will be available for the duration of the project. A St Co. Saltant Project is on compus st. (check site(a)) Project is off campus at (check site(s)) Pernassus [] Leurel Hts. [] MCB [ Mtl. Zion | Disc ☐ VAMC ☐ 74 New Montpomery St. ☐ 3180 18th St. ☐ Freshe,☐ UC Nichmond Field Stn. ☐ Other: SPCH [ Mission Sey [] Other (provide address): (provide address): Department(s) to which space is assigned: Redictory Certification: the information provided in appurate and complete to the best of my browdedge. In the event this proposal is funded, I shall accept responsibility for the design, execution and management of the project. AA. Phillo W. Chy 4/11/2004 Frankling Charles Commence Additional Miview Signatures: (1880 his library passors his af suite diseased him for a list of required केन क्षकार्थ की शह का अंक्रियां है eignatures) to prospection mann it Rebecce Brith-Bindmen, MD and this is 411112004 . TOWNS 1 1999 the Pages Bon Arandon, Mo and the state of t

### **DISCLOSURE OF FINANCIAL INTERESTS**

### University of California, San Francisco

provision of the information on this form is mandatory for the Principal Investigator and any Participant identified by the PI as someone who has esponsibility for the design, conduct or reporting of research on a sponsored project (i.e. any individual who can direct the research or research results), in accordance with Public Health Service (PHS) or National Science Foundation (NSF) regulations and the *University Policy on Disclosure of Financial Interests Related to Sponsored Projects*. Failure to disclose may result in loss of federal funding. This information may, under the California Public Records Act, be released to sponsoring agency personnel or members of the public. Submit the <u>original</u> of this form with the proposal that is sent to Contracts and Grants.

Principal Investigator's Name:Philip W. Chu	
Title of Proposal or Award: Outcomes of Screening Mammography in Elderly Women	
Agency Name and Award Number (if known): DAMD17-00-1-0193 DOD	

(THIS FORM MUST BE COMPLETED AND SIGNED BY SIGNATORY. FALSE DISCLOSURES CAN RESULT IN LOSS OF FUNDING AND OTHER DISCIPLINARY ACTION.)
Name of Participant Making This Disclosure: Philip W. Chu
Mailing Address: 1667Department: Radiology Phone: 885-3842
Email Address: Bill.Chu@Radiology.ucsf.edu
☑ I DO NOT have a financial interest in a single entity, which exceeds \$10,000 income, or 5% ownership interest related to the research to be conducted as part of the above-referenced project.
I DO have a financial interest in a single entity, which exceeds \$10,000 income, or 5% ownership interest related to the research to be conducted as part of the above-referenced project.
CERTIFICATION
I certify that this a complete and accurate disclosure of any financial interest, which would reasonably appear to be related to this sponsored project
to be related to this sponsored project  Signature:

WHAT IS A "RELATED" INTEREST? Whenever it could reasonably appear that the research to be undertaken could be affected by, or have an effect on an investigator's financial interest, the financial interest is "related" to the sponsored project. The following examples are financial interests that are "related" to the sponsored project:

The Investigator is conducting a project where the results could be relevant to the development, manufacturing, or improvement of the products or services of the entity in which the Investigator has a financial interest.

The Investigator has a financial interest in an entity which might manufacture or commercialize a drug, device, procedure or any other product used in the project or that will predictably result from the project.

The Investigator receives income exceeding \$10,000 (including payments to the Compensation Plan) from a single entity for consulting activities that would reasonably appear to be related to the research.

The Investigator has a financial interest in an entity and the sponsored project will subcontract a portion of the work, or lease property, or make purchases from the entity.

The sponsored project will involve referral of patients/subjects to organizations in which the Investigator has a financial interest.

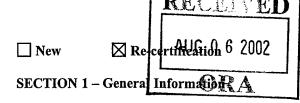
### WHAT IS A "FINANCIAL" INTEREST?

- ♦ Income from a single entity including salary, consulting fees, honoraria, royalties, dividends, or any other payments or consideration with value, including payments made to the Compensation Plan.
- Equity in any one enterprise in the form of stock, stock options, real estate, or any other investment or ownership interest.
- ◆ Income from a management position, such as board member, director, officer, partner, or trustee in any business entity.
- Income from a position as employee in any business entity.

Where financial interests exceed federal thresholds, the Participant must complete a supplemental questionnaire, and the Conflict of Interest Advisory Committee will conduct a complete review. For auditing purposes, the principal investigator and participants in the project may be asked to provide verification of actual financial interests during the term of the sponsored project.

(Retention: Three (3) years after termination of sponsored project or until resolution of any action by the sponsor, whichever is longer.)

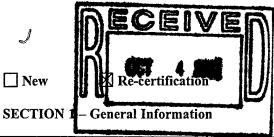
# UNIVERSITY OF CALIFORNIA, SAN FRANCISCO COMMITTEE ON HUMAN RESEARCH EXEMPT CERTIFICATION FORM



Principal Investigator (Must be an eligit	ole faculty member):			
Name and degree	University Title	Department		
Rebecca Smith-Bindman, MD	Asst. Professor	Radiology, Epi., & 1	Biostatstatistics	
Campus Mailing Address (Box No.)	Phone Number	E-mail Address		
Box 1667	415-885-7511	Rebecca.Smith-		
Co-Principal Investigator:				
Name and degree	University Title	Department		
		_		
Campus Mailing Address (Box No.)	Phone Number	E-mail Address		
Administrative Contact Person (optional):	A second	Kari Caro da Sili		
Name	University Title	Department		
Travis Seawards	AAIII	Radiology		
Campus Mailing Address (Box No.)	Phone Number	E-mail Address		
Box 1667	415-353-7983	Travis.Seawards@F	Radiology.ucsf.edu	
Study Title (may not exceed 300 characters):				
Validation of Medicare Screening Algorithm	1	<u> </u>		
		-		
Other Investigators:	Site(s) (check all that apply):			
Name and Degree/Department/Site	⊠UCSF□SFGH□VAMC			
	Stanford UC Berkeley	Foreign	☐GCRC (Parnassus)☐☐☐GCRC (SFGH)	
	Country Other(s):	roteign	□PCRC	
			Cancer Center	
The following information should be complete	ad for each source of funding related to this	study. If there is more	than one course of funding	
please complete and attach the CHR Funding A		study. If there is more	man one source of funding,	
predict compress that action the Control and Inches	Iddondam I om			
How will study be funded?				
Type of funding:	Source of funding:	Funds will be a	COTTO GARDANA SOCIETA AND AND AND AND AND AND AND AND AND AN	
☐ Contract/Grant	☐ Federal Government	UCSF	warded to:	
Subcontract (identify primary funding	Other Gov't. (e.g., State, local)	Gallo Institute		
source):	Industry (e.g., pharmaceutical co.)	Gladstone Inst	itute	
□ Gift	Other Private	Goldman Insti		
Drug/device donation	Campus/UC-Wide program	NCIRE		
☐ Student project	Departmental Funds	S.F. Dept. of Public Health		
	Other (identify):	UC Berkeley		
Have funds been awarded?		☐ VA Research Office		
Yes Pending No		☐ Other:		
Additional details:				
Sponsor Name: NIH				
Award No. (if known):				
Which Department/ORU is administering				
Principal Investigator on contract/grant (if				
<ul> <li>Study title on contract/grant (if different f</li> </ul>	rom above):			

# rincipal Investigator's Certification: I certify that the information provided in this application is complete and correct. I accept ultimate responsibility for the conduct of this study, the ethical performance of the project, and the protection of the rights and welfare of the human subjects who are directly or indirectly involved in this project. I will comply with all UCSF policies and procedures, as well as with all applicable federal, state and local laws regarding the protection of human subjects in research. I will ensure that the personnel performing this study are qualified and adhere to the provisions of this CHR-certified protocol. I will not modify this CHR-certified protocol or any attached materials without first submitting an amendment to the previously approved protocol. Principal Investigator's Signature Exempt Category Number EXEMPT CATEGORY NUMBER: 4

### UNIVERSITY OF CALIFORNIA, SAN FRANCISCO COMMITTEE ON HUMAN RESEARCH EXEMPT CERTIFICATION FORM



Principal Investigator (Must be an eligib			
Name and degree	University Title	Department	
Rebecca Smith-Bindman, MD	Asst. Professor	Radiology, Epi., & Biostatstatistics	
Campus Mailing Address (Box No.)	Phone Number	E-mail Address	
Box 1667	415-885-7511	Rebecca.Smith-	
Co-Principal Investigator:			
Name and degree	University Title	Department	
	•	•	
Campus Mailing Address (Box No.)	Phone Number	E-mail Address	
Administrative Contact Person (optional):			
Name	University Title	Department -	
Travis Seawards	AAIII .	Radiology	
Campus Mailing Address (Box No.)	Phone Number	E-mail Address	
Box 1667	415-353-7983	Travis.Seawards@Radiology.ucsf.edu	
Study Title (may not exceed 300 characters):			
Outcomes of Screening Mammography in El	lderly Women		
	werry v. omen		
Other Investigators:	Site(s) (check all that apply):		
Name and Degree/Department/Site			
Name and Degree Department Site		□GCRC (Parnassus)□	
	Stanford UC Berkeley	☐ Foreign GCRC (SFGH)	
	Country Other(s):	□PCRC	
		Cancer Center	
The following information should be complete	d for each source of funding related to this s	tudy. If there is more than one source of funding,	
please complete and attach the CHR Funding A	ddendum Form	,	
How will study be funded?			
Type of funding:	Source of funding:	Funds will be awarded to:	
☑ Contract/Grant	☐ Federal Government	☑ UCSF	
Subcontract (identify primary funding	Other Gov't. (e.g., State, local)	Gallo Institute	
source):	Industry (e.g., pharmaceutical co.)	Gladstone Institute	
☐ Giất —	Other Private	Goldman Institute on Aging	
☐ Drug/device donation	Campus/UC-Wide program	NCIRE	
Student project	Departmental Funds	S.F. Dept. of Public Health	
	Other (identify):	UC Berkeley	
Have funds been awarded?	· · · · · · · · · · · · · · · · · · ·	☐ VA Research Office	
Yes Pending No		Other:	
Additional details:			
<ul> <li>Sponsor Name: NIH</li> </ul>			

Award No. (if known):

Which Department/ORU is administering the contract/grant? Principal Investigator on contract/grant (if different from above): Study title on contract/grant (if different from above):

## ncipal Investigator's Certification: I certify that the information provided in this application is complete and correct. I accept ultimate responsibility for the conduct of this study, the ethical performance of the project, and the protection of the rights and welfare of the human subjects who are directly or indirectly involved in this project. I will comply with all UCSF policies and procedures, as well as with all applicable federal, state and local laws regarding the protection of human subjects in research. I will ensure that the personnel performing this study are qualified and adhere to the provisions of this CHR-certified protocol. I will not modify this CHR-certified protocol or any attached materials without first submitting an amendment to the previously approved protocol. Principal Investigator's Signature Exempt Category Number **EXEMPT CATEGORY NUMBER: 4** CHR Office Use Only \*\*\* Certification of Exempt Status On the basis of the information presented here, this research activity qualifies as exempt from review by the Committee on Human Research. Certifications are valid for three years from the date of certification. CHR Authorized Signature

ó a	mplete part 1 and/or 2 below for research eligible under Exempt Category #4:  tegory #4 The research involves the collection or study of existing data, documents, records, pathological specimens, or diagnostic specimens, if these sources are publicly available or if the information is recorded by the investigator in such a manner that subjects cannot be identified, directly or through identifiers linked to the subjects.
Α.	Biological Specimens- complete the following if you are requesting permission to study biological specimens
1.	In non-technical language briefly describe the study purpose and activities:
2.	Will there be any contact with the subjects?  Yes No
	If "Yes", this research does not qualify as exempt. Please fill out and submit a <u>subcommittee or full committee application</u> for CHR review.
3.	What is (are) the type(s) of biological specimens?
	*Please note that if you are working with cell lines you may not need CHR approval. However, you will have to review the <u>CHR Requirements for Human Tissue Research in the CHR Guidelines</u> to make a determination.
1.	Are these from a nationally recognized or an established UCSF Tissue Bank?  Yes
	If "Yes" please answer the following questions.  Owner/Person in charge of the tissue bank:  Name of Tissue Bank:  Location:
	If "No" identify the specific source:  UCSF on-site Off-site Specific Location of source: Owner/Name of person providing specimens:
5.	Are these pre-existing specimens? Pre-existing means the specimens are collected prior to this research use for a purpose other than the proposed research. $\square$ Yes $\square$ No
6.	Are the specimens originally collected for:  Research Purposes Clinical Purposes
	Attach a copy of the IRB Approval Notice and Consent Form for the research responsible for the original collection of the data/specimens. If the original collection came from a UCSF IRB Approved study you can just provide the CHR approval number in the space below. If you do not have this documentation, provide a written justification for not having it:
7.	How are the specimens identified when they are made available to the study team?
	No Identifier (i.e., no one can identify a subject from any information recorded for the research)  ☐ Indirect Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject)  ☐ Direct Identifier (i.e., a code which could be used by the source to identify a subject to the researcher?  ☐ Ves ☐ No  ☐ Direct Identifier (i.e., subject name, address, social security number, medical record number, or telephone number)
8.	Please note: If the researcher can connect the specimen with subjects the study will not qualify for exempt certification. If indirect identifiers are used, a written agreement or policy must specify that the source will not identify subjects to the researcher. If the researcher may receive identifying information, please fill out a <u>subcommittee or full committee application</u> .  Please attach a list with all the data points (e.g. characteristics that are associated with the specimen i.e. gender, age, disease). (Note-your study cannot be reviewed without this information) If this is not applicable, please explain:

9. Other approvals needed if using biological specimens:

	(BUA) process. BUA Applications and assistance may be obtained from your Departmental Safety Advisor (DSA), the Biosafety Officer at 476-2097, or the BSC Office at 476-2198. Forms may also be obtained from the Campus Library or the Environmental Health and Safety (EH&S) web site  BUA number, if known:		
2)	2) Will human biological specimens in this study be u	sed in animal studies?	
	If "Yes," you must also apply for Committee on Ar from the <u>CAR website</u> . For assistance you may call	nimal Research (CAR). CAR Applications may be obtained the CAR Office at 476-219	
-	CAR approval number, if known: Date submitted to the CAR:		
. <u>R</u>	Records Review and/or Data Analysis- complete lo data analysis.	the following if you are requesting permission to review records or	
Fr Mac 1) sc fr Sl ar di Sl	Francisco, New Mexico, and Washington State Breast Condedicare for the same geographical regions from 1992-accurately distinguish screening from diagnostic mammal compared the accuracy of an algorithm developed from the accuracy of an algorithm developed from three BCSC mammography registries; 2) if the algorithm the BCSC mammography registries; 2) if the algorithm developed diagnostic purposes by comparing the algorithm three BCSC mammography registries; 2) if the algorithm developed diagnostic purposes by comparing the algorithm three BCSC mammography registries; 2) if the algorithm developed diagnostic purposes and three BCSC mammography registries; 2) if the algorithm developed diagnostic purposes by comparing the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries; 2) if the algorithm developed from three BCSC mammography registries	purpose and activities: Using prospectively collected data from the San Cancer Surveillance Consortium (BCSC) registries, linked with data from Seer-1996, we have assessed whether Medicare physician claims can be used to ography among 4,140 elderly women with breast cancer. Specifically, we have as Medicare claims for distinguishing whether mammography is obtained for rithm's classification of type of examination with the corresponding information orithm for differentiating type of mammographic examination based on the the SEER-Medicare database will be used to evaluate screening utilization ration varies by age and racial/ethnic group, and 3) if the algorithm for ration based on the SEER_Medicare data is valid, i.e. at least 90% accurate, the ences in breast cancer tumor attributes including size and stage, and differences impectomy, and radiation between women who undergo routine screening	
	This may be the same as in B.1.a. if you are also workin	• -	
	Will there be any contact with the subjects?  Yes	⊠ No	
If	f "Yes", this research does not qualify as exempt. Pleas	e fill out a <u>subcommittee or full committee application</u> for CHR review.	
W	What types of records will be reviewed? (Check all t	hat apply)	
	☐ Medical Records (i.e. STOR, clinic records, UC Identify type: ☐ Cancer Center ☐ Publicly available (i.e. DMV, library, newspape) ☐ Data Sets ☐ Other:		
D	Do you have clinical privileges to access these record	s or data sets? Yes No	
	If "No" provide a letter of support from clinic or or explain how you access to the records or data	r department or IRB approval if from another institution, sets:	
V d:	Will any records or data sets that contain identifiable latabases)	e private information be used? (e.g., medical, accounting, research	
	Yes No a code which could be used by the	investigator to identify a subject	
H	How will data be recorded from the source records?		

-4	$\mathcal{N}$ .				
•	No Identifier (i.e., no one can identify a subject from any information recorded for the research)				
	Indirect Identifier (i.e., a code which could be used by the source to identify a subject)				
1	- Does a written agreement or policy ensure that the source will not identify subjects to the researcher? Yes No				
- /	If there is no agreement or policy, the study does not qualify as exempt.				
	Direct Identifier (e.g., subject name, address, social security number, medical record number, or telephone number)				
4					
Please note: If there is any way you can connect the research record with subjects identifiers in the source record the study will no					
for	exempt certification. Please fill out a subcommittee or full committee application for CHR review				
1					
g.	Please attach a list with all the data points (e.g. characteristics that are associated with the specimen i.e. gender, age, disease).				
	(Note-your study cannot be reviewed without this information) If this is not applicable, please explain: All subjects are women -				
1	patient age, race, information on inpatient and outpatient hospital admissions, diagnoses, comorbidities, use of physician screening and				
	diagnostic testing, cancer diagnosis including size, stage and maturity.				